

external apparatus as an apparatus to be responded
to thereafter by the intelligent interconnecting
device and causing the intelligent interconnecting
device to judge whether or not this access is the
5 first access, when it is judged in the third step
that the authentication is given;

• a fifth step of causing the intelligent
interconnecting device to extract and store a
source IP address included in a packet which is
10 received from the external apparatus in the
authentication processing when this access of the
external apparatus is judged to be the first access
in the fourth step;

• a sixth step of determining the external
15 apparatus as an apparatus not to be responded to
thereafter by the intelligent interconnecting
device when the external apparatus is judged not
to be authenticated in the third step;

• a seventh step of causing the intelligent
20 interconnecting device to judge whether or not the
source IP address of the external apparatus giving
the access thereto is identical with the stored
source IP address when this access is judged not
to be the first access in the first step;

25 • an eighth step of determining the external

apparatus whose source IP address is judged to be identical with the stored source IP address as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the intelligent interconnecting device to process the steps beginning from the second step when the source IP address of the external apparatus is judged to be identical with the stored source IP address in the seventh step; and

• a ninth step of determining the external apparatus whose source IP address is judged to be nonidentical with the stored source IP address as an apparatus not to be responded to thereafter by the intelligent interconnecting device when the source IP address of the external apparatus is judged to be nonidentical with the stored source IP address in the seventh step.

[0009] This structure is particularly appropriate for carrying out the unauthorized access avoiding method in an intelligent interconnecting device in the first embodiment of the present invention and is realizable, for example, by what is called a microcomputer, or a circuit and software having functions equivalent thereto.

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5 【0010】 According to a third embodiment of the
present invention, a recording medium in which a
computer readable unauthorized access avoiding
program which is executed in an intelligent
interconnecting device having a function of
repeating a packet which is transmitted/received
between a plurality of computers and being
structured to be controllable by an external
apparatus based on a TCP/IP protocol is recorded
10 is provided, wherein the unauthorized access
avoiding program comprises the following steps:

- a first step of causing the intelligent
interconnecting device to judge whether or not a
first access to the intelligent interconnecting
15 device from outside has occurred;
- a second step of causing the intelligent
interconnecting device to carry out authentication
processing by using a user identifier and a
password based on the TCP/IP protocol when it is
20 judged in the first step that the first access from
outside has occurred;
- a third step of causing the intelligent
interconnecting device to judge after the
authentication processing in the second step
25 whether or not authentication is given;